

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.: MO-0123358

Owner: Koller Enterprises
Address: 1400 South Highway 141, Fenton, MO 63026

Continuing Authority: Same as above
Address: Same as above

Facility Name: Koller Craft Plastic Products
Address: 1400 South Highway 141, Fenton, MO 63026

Legal Description: US Survey 3011, T43N, R5E, Jefferson County

Receiving Stream: Saline Creek (C)
First Classified Stream and ID: Saline Creek (P)(02189) 303(d) list
USGS Basin & Sub-watershed No.: (07140102-080004)

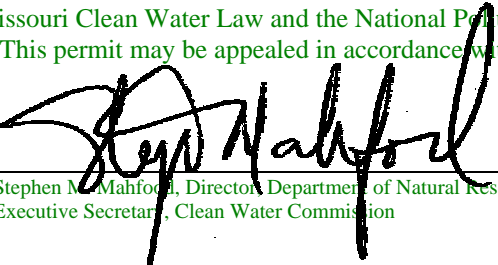
is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 - Manufacturing - SIC #3089
Non contact cooling water and storm water runoff.
Maximum flow of cooling water is 0.432 MGD (900 gpm for one eight-hour shift).

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

April 2, 2004
Effective Date


Stephen M. Mahford, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

April 1, 2009
Expiration Date
MO 780-0041 (10-93)

Jim Hull, Director of Staff, Clean Water Commission

					PAGE NUMBER 2 of 5	
A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PERMIT NUMBER MO-0123358	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	once/month	24 hr. estimate
Oil and Grease	mg/L	15		10	once/year**	grab
Chemical Oxygen Demand	mg/L	*		*	once/year**	grab
Chemicals currently stored outside or in the last 3 years (See Sampling Req.)	mg/L	*		*	once/year**	grab
pH - Units	SU	***		***	once/year**	grab
Settleable Solids	mL/L/hr	*		*	once/year**	grab
Color****		*		*	once/year**	grab
<u>Instream Monitoring</u> - 50 feet above Outfall #001						
Temperature	°F	*		*	once/month	grab
<u>Downstream Monitoring</u> - 100 feet below Outfall #001						
Temperature	°F	*****		*****	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2004</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Permittee shall collect and analyze one sample per year, taken during a rainfall which exceeds 0.1 inches and results in a discharge, and also at any time at the request of the department.
- *** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- **** Description of the visual appearance of the effluent. For example: clear, green, black, etc.
- ***** Effluent shall not elevate or depress the temperature of the receiving stream beyond the mixing zone more than five (5°)F. The stream temperature beyond the mixing zone shall not exceed ninety (90°)F due to the effluent.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) shall be stored so that these materials are not exposed to storm water. Spill prevention, control, and/or management shall be provided sufficient to prevent any spills of these pollutants from entering a water of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
3. Collection facilities shall be provided on-site, and arrangement made for proper disposal of (non-wood) waste products, including but not limited to, petroleum waste products and solvents.
4. Good housekeeping practices shall be maintained on the site to keep solid waste from entering waters of the state.
5. All fueling facilities present on the site shall adhere to applicable federal and state regulations concerning underground storage, above ground storage, and dispensers, including spill prevention, control and counter measures.
6. An individual shall be designated by the permittee as responsible for environmental matters. Staff of the permitted facility shall inspect, on workdays, any structures that function to prevent pollution of storm water or to remove pollutants from storm water and of the facility in general to ensure that any Best Management Practices are continually implemented and effective.
7. Substances regulated by federal law under the Resource Conservation and Recovery Act (RCRA) or the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) that are transported, stored, or used for maintenance, cleaning or repair shall be managed according to the provisions of RCRA and CERCLA.
8. All involved personnel shall be trained in material handling and storage, and housekeeping of maintenance areas. Upon request, proof of training shall be submitted to the Department.
9. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.

C. SPECIAL CONDITIONS (continued)

10. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

11. Report as no-discharge when a discharge does not occur during the report period.

12. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (e) There shall be no significant human health hazard from incidental contact with the water;
- (f) There shall be no acute toxicity to livestock or wildlife watering;
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

13. All outfalls must be clearly marked in the field.

STORMWATER SAMPLING REQUIREMENTS

1. The permittee shall collect and analyze one representative sample per year taken during a rainfall, which exceeds 0.1 inches and results in a discharge. The sample shall be analyzed for chemicals listed in 40 CFR 122 Appendix D (see Attachment 1) which are currently or have been stored outside in the last three years in open or unsecured containers, loaded or unloaded, and exposed to storm water. A secure container shall be deemed to be a container with a lid, which has never been opened since it was originally sealed.
2. Other soluble bulk materials that are not listed in 40CFR 122 Appendix D (see Attachment 1) that are actually stored outside and exposed to storm water must also be monitored. If permittee has questions concerning which parameters to sample and test for, contact the Water Pollution Control Program.
3. Exempted from monitoring requirements are iron and aluminum, when stored outside in the form of solid pieces of steel and aluminum, and gases.

Attachment 1

Appendix D, To Part 122 - NPDES Permit Application Testing Requirements (122.21)

Table II - Organic Toxic Pollutants In Each Of Four Fractions In Analysis By Gas Chromatography/Mass Spectroscopy (GS/MS).

<u>Volatiles</u>	<u>Base/Neutral</u>
1V acrolein	1B acenaphthene
2V acrylonitrile	2B acenaphthylene
3V benzene	3B anthracene
5V bromoform	4B benzidine
6V carbon tetrachloride	5B benzo(a)anthracene
7V chlorobenzene	6B benzo(a)pyrene
8V chlorodibromomethane	7B 3,4-benzofluoranthene
9V chloroethane	8B benzo(ghi)perylene
10V 2-chloroethylvinyl ether	9B benzo(k)fluoranthene
11V chloroform	10B bis(2-chloroethoxy)methane
12V dichlorobromomethane	11B bis(2-chloroethyl)ether
14V 1,1-dichloroethane	12B bis(2-chloroisopropyl)ether
15V 1,2-dichloroethane	13B bis(2-ethylhexyl)phthalate
16V 1,1-dichloroethylene	14B 4-bromophenyl phenyl ether
17V 1,2-dichloropropane	15B butylbenzyl phthalate
18V 1,3-dichloropropylene	16B 2-chloronaphthalene
19V ethylbenzene	17B 4-chlorophenyl phenyl ether
20V methyl bromide	18B chrysene
21V methyl chloride	19B dibenzo(a,h)anthracene
22V methylene chloride	20B 1,2-dichlorobenzene
23V 1,1,2,2-tetrachloroethane	21B 1,3-dichlorobenzene
24V tetrachloroethylene	22B 1,4-dichlorobenzene
25V toluene	23B 3,3'-dichlorobenzidine
26V 1,2-trans-dichloroethylene	24B diethyl phthalate
27V 1,1,1-trichloroethane	25B dimethyl phthalate
28V 1,1,2-trichloroethane	26B di-n-butyl phthalate
29V trichloroethylene	27B 2,4-dinitrotoluene
31V vinyl chloride	28B 2,6-dinitrotoluene
	29B di-n-octyl phthalate
	30B 1,2-diphenylhydrazine (as azobenzene)
	31B fluoranthene
	32B fluorene
	33B hexachlorobenzene
	34B hexachlorobutadiene
	35B hexachlorocyclopentadiene
	36B hexachloroethane
	37B indeno(1,2,3-cd)pyrene
	38B isophorone
	39B naphthalene
	40B nitrobenzene
	41B N-nitrosodimethylamine
	42B N-nitrosodi-n-propylamine
	43B N-nitrosodiphenylamine
	44B phenanthrene
	45B pyrene
	46B 1,2,4-trichlorobenzene
<u>Acid Compounds</u>	
1A 2-chlorophenol	
2A 2,4-dichlorophenol	
3A 2,4-dimethylphenol	
4A 4,6-dinitro-o-cresol	
5A 2,4 dinitrophenol	
6A 2-nitrophenol	
7A 4-nitrophenol	
8A p-chloro-m-cresol	
9A pentachlorophenol	
10A phenol	
11A 2,4,6-trichlorophenol	

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Pesticides
Nonconventional

Existing

1P aldrin
 Present
2P alpha-BHC
3P beta-BHC
4P gamma-BHC
5P delta-BHC
6P chlordane
7P 4,4'-DDT
8P 4,4'-DDE
9P 4,4'-DDD
10P dieldrin
11P alpha-endosulfan
12P beta-endosulfan
13P endosulfan sulfate
14P endrin
15P endrin aldehyde
16P heptachlor
17P heptachlor epoxide
18P PCB-1242
19P PCB-1254
20P PCB-1221
21P PCB-1232
22P PCB-1248
23P PCB-1260
24P PCB-1016
25P toxaphene

Table III - Other Toxic
Pollutants (Metals and Cyanide)
and Total Phenols

Antimony, Total
Arsenic, Total
Beryllium, Total
Cadmium, Total
Chromium, Total
Copper, Total
Lead, Total
Mercury, Total
Nickel, Total
Selenium, Total
Silver, Total
Thallium, Total
Zinc, Total
Cyanide, Total
Phenols, Total

Table IV - Conventional and

Pollutants Required to be Tested by

Dischargers if Expected to be

Bromide
Chlorine, Total Residual
Color
Fecal Coliform
Fluoride
Nitrate-Nitrite
Nitrogen, Total Organic
Oil and Grease
Phosphorus, Total
Radioactivity
Sulfate
Sulfide
Sulfite
Surfactants
Aluminum, Total
Barium, Total
Boron, Total
Cobalt, Total
Iron, Total
Magnesium, Total
Molybdenum, Total
Manganese, Total
Tin, Total
Titanium, Total

Table V - Toxic Pollutants and
Hazardous Substances Required To Be
Identified by Existing Dischargers
if Expected To Be Present

Toxic Pollutants

Asbestos

Hazardous Substances

Acetaldehyde
Allyl alcohol
Allyl chloride
Amyl acetate
Aniline
Benzonitrile
Benzyl chloride
Butyl acetate
Butylamine
Captan
Carbaryl
Carbofuran

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Table V - (continued)

Hazardous Substances (continued)

Carbon disulfide	Pyrethrins
Chlorpyrifos	Quinoline
Coumaphos	Resorcinol
Cresol	Strontium
Crotonaldehyde	Strychnine
Cyclohexane	Styrene
2,4-D(2,4-Dichlorophenoxy acetic acid)	2,4,5-T(2,4,5-Trichlorophenoxy acetic acid)
Diazinon	TDE(Tetrachlorodiphenylethane)
Dicamba	2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]
Dichlobenil	Trichlorofan
Dichlone	Triethanolamine
2,2-Dichloropropionic acid	
dodecylbenzenesulfonate	
Dichlorvos	Triethylamine
Diethyl amine	Trimethylamine
Dimethyl amine	Uranium
Dintrobenzene	Vanadium
Diquat	Vinyl acetate
Disulfoton	Xylene
Diuron	Xylenol
Epichlorohydrin	Zirconium
Ethion	
Ethylene diamine	
Ethylene dibromide	
Formaldehyde	
Furfural	
Guthion	
Isoprene	
Isopropanolamine Dodecylbenzenesulfonate	
Kelthane	
Kepone	
Malathion	
Mercaptodimethur	
Methoxychlor	
Methyl mercaptan	
Methyl methacrylate	
Methyl parathion	
Mevinphos	
Mexacarbate	
Monoethyl amine	
Monomethyl amine	
Naled	
Napthenic acid	
Nitrotoluene	
Parathion	
Phenolsulfanate	
Phosgene	
Propargite	
Propylene oxide	